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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/734,085 12/11/2003		Young Kyu Park	60246-259	7980	
26096 75	590 12/01/2005		EXAMINER		
CARLSON, C	GASKEY & OLDS, P.C.	JONES, MELVIN			
SUITE 350	IFLE KUAD	ART UNIT	PAPER NUMBER		
BIRMINGHAN	M, MI 48009	3744			
	•		DATE MAILED: 12/01/200:	DATE MAILED: 12/01/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)				
		10/734,08	5	PARK, YOUNG KYU				
Office Action Summa	ry	Examiner		Art Unit				
	•	Melvin Jon		3744				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status		`						
 Responsive to communication This action is FINAL. Since this application is in conclosed in accordance with the 	2b)⊠ This dition for allowar	action is no	for formal matters, pr		e merits is			
	practice under E	en parto qui	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Disposition of Claims								
4) ☑ Claim(s) <u>1-21</u> is/are pending in 4a) Of the above claim(s) 5) ☑ Claim(s) <u>12-21</u> is/are allowed. 6) ☑ Claim(s) <u>1-8</u> is/are rejected. 7) ☑ Claim(s) <u>9-11</u> is/are objected to 8) ☐ Claim(s) are subject to	_ is/are withdrav	wn from cor						
Application Papers								
9)☐ The specification is objected to	by the Examine	er.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119					,			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Re 3) Information Disclosure Statement(s) (PTO-Paper No(s)/Mail Date			4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:	Date	⁻ O-152)			

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miller (US Patent Application 6,349,547) in view of "Official Notice". Miller discloses an apparatus for freezing a product and comprising the basic inventive step: a heat exchanger (12), an expander (16) for heat a quantity of water (see column 3), a pump (11), a first member movable fan blade (18) connected to a shaft and operate in response to refrigerant requirements, a braking friction surface suitable for absorbing energy (see column 4) and heat water. Examiner takes "Official Notice" since it is well known to use a vapor compression for cooling.

Allowable Subject Matter

Claims 12-21 are allowed over the prior art of record.

Claims 9-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments with respect to claims 1-21 have been considered but are most in view of the new ground(s) of rejection.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melvin Jones whose telephone number is (571)272-4810. The examiner can normally be reached on Monday & Wed - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Melba Bumgarner can be reached on (571) 272-4709. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Melvin Jones Primary Examiner Art Unit 3744

MELVIN JONES
PRIMARY EXAMINER